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L2 ANSWER 1 OF 1 JAPIO COPYRIGHT 1997 JPO and Japio  
AN 95-265074 JAPIO  
TI NEW CREATINE AMIDINOHYDROLASE AND ITS USE  
IN HATTORI SHIZUO; TEJIMA SHINICHI; KAWAMURA YOSHIHISA  
PA TOYOCO CO LTD, JP (CO 000316)  
PI \*\*\*JP 07265074\*\*\* A 19951017 Heisei  
AI JP 94-63363 (JP06063363 Heisei) 19940331  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol.  
95, No. 10  
IC ICM (6) C12N009-78  
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ICI (6) C12N009-78, (6) C12R001:05  
CC 14.5 ORGANIC CHEMISTRY - Microorganism industry  
28.2 SANITARY - Therapy and sanitation  
46.2 INSTRUMENTATION - Testing  
AB PURPOSE: To obtain a new creatine amidinohydrolase, useful as  
reagents for determining creatine and creatinine, excellent in  
thermal stability, having a low Km value for the creatine and good  
in reactivity.  
CONSTITUTION: This creatine amidinohydrolase is obtained by  
culturing *Alcaligenes faecalis* TE3581 (FERM P-14237), etc., and has  
the following properties: (1) reacting with creatine and producing  
sarcosine and urea; (2) optimum temperature: about 40-45.degree.C;  
(3) optimum pH: about 8.0-9.0; (4) stable at 100°C. about  
50.degree.C when kept warm at pH7.5 for 30min; (5) stable at pH  
about 5-8 when preserved at 40.degree.C for 18hr; (6) about 15.2mM  
value of Km for creatine; (7) molecular weight: about 67000  
(measured by the gel filtration method) and about 43000 (measured by  
the sodium dodecyl sulfate-polyacrylamide gel electrophoresis  
(SDS-PAGE)) and (8) isoelectric point: about 3.5.